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### **AMENDED LISTING OF CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in this application:

1. (Currently amended) A method for determining therapeutic resonant frequencies of electromagnetic radiation for treating an animal or human infected with a disease caused by a pathogen, wherein said pathogen comprises a genomic material, the genomic material being surrounded by a medium, comprising:
  - providing a frequency-emitting device;
  - determining a velocity of the electromagnetic radiation through the medium surrounding the genomic material;
  - determining the length of the genomic material;
  - determining a first therapeutic resonant frequency to influence the genomic material in a first electromagnetic frequency range, by dividing the velocity of the electromagnetic radiation through the medium surrounding the genomic material by the length of the genomic material;
  - dividing or multiplying the first therapeutic resonant frequency by a factor of a power of two, to obtain a second therapeutic resonant frequency to influence said genomic material, wherein the second therapeutic resonant frequency is in an electromagnetic frequency range capable of being emitted by the frequency-emitting device;
  - programming the frequency-emitting device to emit the first, or the second resonant frequency; and
  - treating the animal or human with the programmed resonant frequency intended to influence said genomic material, thereby rendering a therapeutic or desirable effect in the animal or human.